

## CLAIMS

1. Process for constructing infrastructures, in which aggregates, vitrified blast-furnace slag, a pulverulent activator and water are mixed together, and the mix is spread out over the ground, compacted and left to harden, characterized in that a particulate slag and a ready-prepared additive containing, on the one hand, the activator and, on the other hand, dry ground vitrified slag having a particle size of less than 500  $\mu\text{m}$  are added to the aggregates.

2. Process according to Claim 1, characterized in that an unpreground as-granulated or as-pelletized slag is used as the particulate slag added to the aggregates.

15 aggregates.

a 3. Process according to <sup>claim 1</sup> ~~either of Claims 1 and 2,~~  
characterized in that the dry ground slag has a water  
content of less than 0.5% by weight.

a 4. Process according to <sup>claim 1</sup> ~~one of Claims 1 to 3~~,  
20 characterized in that the activator consists, for more  
than 95% by weight, of lime, calcium sulphate or a  
mixture of lime and calcium sulphate.

5. Process according to Claim 4, characterized in that the activator contains sodium or potassium hydroxide.

25 hydroxide.

a 6. Process according to <sup>claim 1</sup> ~~either of Claims 4 and 5~~,  
characterized in that the activator has an average  
particle size of between 0 and 500  $\mu\text{m}$  for at least 95%  
of its weight and a moisture content of less than 0.5%  
30 by weight.

a 7. Process according to <sup>claim 1</sup> ~~one of Claims 1 to 6~~, characterized in that more than 95% by weight of the additive consists of a mixture having the following formulation by weight:

35	- calcium sulphate	25 to 45	%
	- lime	2 to 6	%
	- dry ground vitrified slag	qsp 100	%.

a 8. Process according to <sup>claim 1</sup> ~~one of Claims 1 to 7~~, characterized in that an amount of additive of between

1 and 3% by weight with respect to the total of the mix (aggregates/slag/additive/water) is added to the said mix.

a 5 9. Additive for the construction of infrastructures according to the process of ~~one of~~ <sup>claim 1</sup>  
a ~~Claims 1 to 7~~, characterized in that it includes, on the one hand, a pulverulent activator and, on the other hand, dry ground vitrified slag having a particle size of less than 500 µm.

10 10. Additive according to Claim 9, characterized in that the dry ground slag has a water content of less than 0.5% by weight.

a 11. Additive according to <sup>claim 9</sup> ~~either of Claims 9 and~~  
a ~~10~~, characterized in that the activator consists, for more than 95% by weight, of lime, calcium sulphate or a mixture of lime and calcium sulphate.

12. Additive according to Claim 11, characterized in that the activator contains soda or potash.

a 13. Additive according to <sup>claim 9</sup> ~~one of Claims 9 to 12~~,  
20 characterized in that the activator has an average particle size of between 0 and 500 µm and a moisture content of less than 0.5% by weight.

a 14. Additive according to <sup>claim 9</sup> ~~one of Claims 9 to 13~~,  
25 characterized in that more than 95% by weight of the additive consists of a mixture having the following formulation by weight:

- calcium sulphate	25 to 45 %
- lime	2 to 6 %
- dry ground vitrified slag	qsp 100 %.

30 15. Additive according to Claim 14, characterized in that it contains known formulation adjuvants for slag-based mixes in order to produce infrastructures.

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